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taking their nest, came into the trees overhead, uttering their peculiar nasal whining. Doubtless they were breeding somewhere in the neighborhood, although I have no positive proof of this.

Regulus satrapa.—My experience with this species at Winchendon is given fully in another article in this number of 'The Auk.'

Turdus aonalaschkæ pallasii.—An abundant bird throughout the entire region, haunting by preference dry, rather open, white pine woods.

LIST OF ADDITIONS TO THE NORTH AMERICAN AVIFAUNA AND OF ELIMINATIONS AND CHANGES IN NOMENCLATURE PROPOSED SINCE THE PUBLICATION OF THE A. O. U. CHECK-LIST.

BY FRANK M. CHAPMAN.

Since the publication of the 'Check-List' in March, 1886, the additions and corrections to our avifauna have been so numerous it has been considered advisable to collate them, and the following compilation is presented with a hope that it may be of some service to the many workers in North American Ornithology.

It may be well to add that the compiler has made it an object to include *all* the additions and changes which have been made without reference to their tenability.

I. ADDITIONS.

Species and subspecies which have been described as new, 'revived,' or recorded as North American.

1. **Larus barrovianus** *Ridgw.* POINT BARROW GULL. RIDGWAY, Auk, III, July, 1886, p. 330.

HAB. "Bering's Sea and contiguous waters, northeastward to Point Barrow; southwestward to Japan (in winter)."

2. **Larus minutus** *Pall.* LITTLE GULL.—Recorded from Long Island, New York, by Dutcher in Auk, V, April, 1888, p. 171.

3. **Diomedea exulans** *Linn.* WANDERING ALBATROSS.—Recorded from Florida (mouth of St. Johns River, Tampa Bay) and coast of Washington Territory. (Cf. *Coues*, Auk, II, Oct. 1885, p. 387, and *Ridgway*, Manual North American Birds, 1887, p. 51.)

4. **Diomedea melanophrys** *Boie.* SPECTACLED ALBATROSS.—"Casual off coast of California." (Cf. *Ridgway*, Manual N. A. Birds, 1887, p. 52.)

5. **Oceanodroma leucorhoa macrodactyla** *Bryant.* GUADALOUPE PETREL.

BRYANT, Bull. Cal. Acad. Sci. II, No. 8, 1887.

HAB. "Guadaloupe Island, Lower California."

6. **Chen cærulescens** (*Linn.*). BLUE GOOSE.

Revived by Ridgway in Manual N. A. Birds, 1887, p. 115.

HAB. "Interior of North America, east of Rocky Mountains, breeding on the eastern shores of Hudson's Bay; migrating south, in winter, through Mississippi Valley to the Gulf Coast, occasional on Atlantic Coast" (*Ridgway*, *l.c.*). (= No. 8 of the 'Hypothetical List' of the A. O. U. Code and Check-List of North American Birds.)

7. **Ardetta neoxena** *Cory.*

CORY, Auk, III, April, 1886, p. 262.

HAB. "Florida, Okeechobee region?"

8. **Ardea wuerdemanni** *Baird.* WUERDEMANN'S HERON.

Admitted by Ridgway in Manual N. A. Birds, 1887, p. 128, and Appendix, p. 583. (= No. 9 of the 'Hypothetical List' of the A. O. U. Code and Check List.)

HAB. "Florida Keys and Cape Florida; Jamaica?; accidental in Southern Illinois." (*Ridgway*, *l.c.*)

9. **Ardea virescens frazari** *Brewst.* FRAZAR'S GREEN HERON.

BREWSTER, Auk, V, Jan. 1888, p. 83.

HAB. "Near La Paz, Lower California."

10. **Rallus longirostris caribæus** *Ridg.*—Recorded from Texas (Corpus Christi and Galveston) by Sennett in Auk, V, July, 1888, p. 319.

11. **Rallus longirostris scottii** *Senn.* SCOTT'S RAIL.

SENNETT, Auk, V, July, 1888, p. 305.

HAB. "West Coast of Florida."

12. **Tringa damacensis** (*Horsf.*). LONG-TOED STINT.—

Recorded from Alaska (Otter Island, Bering's Sea) by Ridgway in Auk, III, April, 1886, p. 275.

13. **Symphemia semipalmata inornata** *Brewst.* WESTERN WILLET.

BREWSTER, Auk, IV, April, 1887, p. 144.

HAB. "Interior of North America between the Mississippi and the Rocky Mountains, wintering along the coasts of the Gulf and Southern States (Florida, Georgia, South Carolina)."

14. **Hæmatopus frazari** *Brewst.* FRAZAR'S OYSTER-CATCHER.

BREWSTER, Auk, V, Jan. 1888, p. 85.

HAB. "Pacific and Gulf Coasts of Lower California."

15. **Colinus virginianus cubanensis** (*Gould*). CUBAN BOB-WHITE.—Included by Ridgway in Manual N. A. Birds, 1887, p. 188.

HAB. "Cuba and Southwestern Florida." (*Ridgway, l. c.*)

16. **Columba fasciata vioscæ** *Brewst.* VIOSCA'S PIGEON.

BREWSTER, Auk, V, Jan. 1888, p. 86.

HAB. "Lower California."

17. **Columbigallina passerina pallescens** (*Baird.*) MEXICAN GROUND DOVE.—Revived by Ridgway in Manual N. A. Birds, 1887, p. 586, Appendix.

HAB. "Southwestern United States (Texas to Arizona and Lower California), and south through Mexico (both coasts), to Central America." (*Ridgway, l. c.*)

18. **Falco æsalon** *Lath.* MERLIN.—Recorded from Greenland by Kumlien in Auk, IV, Oct. 1887, p. 345.

19. **Falco tinnunculus** *Linn.* KESTREL.—Recorded from near Nantasket Beach, Massachusetts, by Cory in Auk, V, Jan., 1888, p. 110. (See also *Ibid*, V, April, 1888, p. 205.)

20. **Glaucidium gnoma hoskinsii** *Brewst.* HOSKINS'S PIGMY OWL.

BREWSTER, Auk, V, April, 1888, p. 136.

HAB. "Lower California."

21. **Rhynchopsitta pachyrhyncha** (*Swains.*). THICK-BILLED PARROT.—"Southwestern Texas and Southern New Mexico." (Cf. *Ridgway*, Manual N. A. Birds, 1887, p. 269.) (= No. 16 of the 'Hypothetical List' of the A. O. U. Code and Check-List.)

22. **Coccyzus americanus occidentalis** *Ridgw.* CALIFORNIA CUCKOO.

RIDGWAY, Manual N. A. Birds, 1887, p. 273.

HAB. "Western United States, north to Oregon, east to New Mexico and Colorado, south over tablelands of Mexico."

23. **Coccyzus maynardi** *Ridgw.* MAYNARD'S CUCKOO.

RIDGWAY, Manual N. A. Birds, 1887, p. 274.

HAB. "Bahamas and Florida Keys."

24. **Phalænoptilus nuttalli nitidus** *Brewst.* FROSTED POOR-WILL.

BREWSTER, Auk, IV, April, 1887, p. 147.

HAB. "Texas and Arizona."

25. **Phalænoptilus nuttalli californicus** *Ridgw.*

RIDGWAY, Manual N. A. Birds, 1887, p. 588, Appendix, foot-note (provisional description).

26. **Chordeiles virginianus sennetti** (*Coues*) *Chamberlain.*

Chordiles popetue sennetti COUES, Auk, V, Jan. 1888, p. 37.

Chordeiles virginianus sennetti CHAMBERLAIN, Systematic Table of Canadian Birds, 1888, Appendix A, p. 14.

HAB. "Dakota to Texas, in any treeless country."

27. **Chordeiles virginianus chapmani** (*Sennett*) *Scott.*

Chordiles popetue chapmani COUES, Auk, V, Jan. 1888, p. 37.

Chordeiles virginianus chapmani SCOTT, Auk, V, April, 1888, p. 186.

HAB. "Florida to Texas."

28. **Trochilus floresii** (*Gould*). FLORESI'S HUMMING-BIRD.—Recorded from California by Bryant in 'Forest and Stream,' XXVI, June 24, 1886, p. 426.

29. **Trochilus violajugulum** *Jeffries.*

JEFFRIES, Auk, V, April, 1888, p. 168.

HAB. "Santa Barbara, Cal."

30. **Empidonax cineritius** *Brewst.* ST. LUCAS FLY-CATCHER.

BREWSTER, Auk, V, Jan. 1888, p. 90.

Type from La Laguna, Lower California.

31. **Cyanocitta stelleri annectens** (*Baird*). BLACK-HEADED JAY.—Revived by Ridgway in Manual N. A. Birds, p. 354.

HAB. "Northern Rocky Mountains, south to Wasatch Range (near Provo, Utah), west to eastern Oregon and Washngton Territory." (*Ridgway, l. c.*)

32. **Aphelocoma insularis** *Hensh.*

HENSHAW, Auk, III, Oct. 1886, p. 452.

HAB. "Santa Cruz Island, California."

33. **Aphelocoma californica hypoleuca** *Ridgw.* XANTHUS'S JAY.

RIDGWAY, Manual N. A. Birds, 1887, p. 356.

HAB. "Lower California (vicinity of Cape St. Lucas)."

34. **Corvus corax principalis** *Ridgw.* NORTHERN RAVEN.

RIDGWAY, Manual N. A. Birds, 1887, p. 361.

Corvus corax carnivorus BAIRD, P. R. R. Surv. IX, 1858, p. 560. (Cf. *Allen*, Auk, IV, 1887, p. 335.)

HAB. "Northern North America, from Greenland to Alaska, south to British Columbia, Canada, New Brunswick, etc."

35. **Corvus americanus hesperis** *Ridgw.* CALIFORNIA CROW.

RIDGWAY, Manual N. A. Birds, 1887, p. 362.

HAB. "Western United States, north to Washington Territory (Puget Sound), Idaho, Montana, etc., south to Northern Mexico, east to Rocky Mountains."

36. **Agelaius phœniceus bryanti** *Ridgw.* BAHAMAN REDWING.

RIDGWAY, Manual N. A. Birds, 1887, p. 370.

HAB. "Bahamas and Southern Florida (Miami, Key West, etc.)."

37. **Agelaius phœniceus sonoriensis** *Ridgw.* SONORAN REDWING.

RIDGWAY, Manual N. A. Birds, 1887, p. 369.

HAB. "Northwestern Mexico and lower Colorado Valley, in Southern California and Arizona; south to Mazatlan."

38. **Pinicola enucleator kodiaka** *Ridgw.* KODIAK PINE GROSBEAK.

RIDGWAY, Manual N. A. Birds, 1887, p. 388.

HAB. "Kodiak to Sitka, Alaska. (Also probably southward to higher Sierra Nevada of California.)"

39. **Carpodacus frontalis ruberrimus** *Ridgw.*

RIDGWAY, Manual N. A. Birds, 1887, p. 391, foot-note.

(Provisional description of the Lower California bird.)

40. **Plectrophenax nivalis townsendi** *Ridgw.* PRYBILOF SNOWFLAKE.

RIDGWAY, Manual N. A. Birds, 1887, p. 403.

HAB. "Prybilof Islands, Alaska, and Commander Islands, Kamtschatka."

41. **Ammodramus caudacutus subvirgatus** *Dwight.* ACADIAN SHARP-TAILED SPARROW.

DWIGHT, Auk, IV, July, 1887, p. 233.

HAB. "Marshes of southern New Brunswick, Prince Edward Island, and probably Nova Scotia, and southward in migration along the Atlantic Coast."

42. **Ammodramus maritimus peninsulæ** *Allen.* SCOTT'S SEASIDE SPARROW.

ALLEN, Auk, V, July, 1888, p. 284.

HAB. "Southwestern Florida (Tarpon Springs and Cedar Keys), and Louisiana (Grand Isle)."

43. **Ammodramus maritimus sennetti** *Allen.* TEXAN SEASIDE SPARROW.

ALLEN, Auk, July, 1888, p. 286.

HAB. "Gulf Coast of Texas (Corpus Christi)."

44. **Ammodramus australis** *Mayn.*

MAYNARD, Am. Ex. and Mart and Household Journal, III, Feb. 5, 1887, p. 69.

HAB. "Rare in the Bahamas but constantly resident in Florida."

45. **Spizella pusilla arenacea** *Chadb.* WESTERN FIELD SPARROW.

CHADBOURNE, Auk, III, April, 1886, p. 248; MERRIAM, Auk, V, Oct. 1888, p. 402.

HAB. Migratory or perhaps resident in winter in southern Texas. In summer northward to Dakota.

46. **Junco hyemalis carolinensis** *Brewst.* CAROLINA JUNCO.

BREWSTER, Auk, III, Jan. 1886, p. 108.

HAB. "Mountains of Western North Carolina."

47. **Junco hyemalis shufeldti** *Coale.*

COALE, Auk, IV, Oct. 1887, p. 330.

Type from Fort Wingate, New Mexico.

48. **Peucæa ruficeps scottii** *Senn.* SCOTT'S SPARROW.

SENNETT, Auk, V, Jan. 1888, p. 41.

Peucæa homochlamys SHARPE, Cat. Bds. Brit. Mus. XII, 1888, 713.

HAB. "Highlands of Arizona, New Mexico (Silver Springs)? and Western Texas (Presidio and Mitchell Counties)?"

49. **Pyrrhuloxia sinuata beckhami** *Ridgw.* ARIZONA PYRRHULOXIA.

RIDGWAY, Auk, IV, Oct. 1887, p. 347.

HAB. "Southern Arizona and New Mexico and contiguous portion of northern Mexico."

50. **Pyrrhuloxia sinuata peninsulæ** *Ridgw.* ST. LUCAS PYRRHULOXIA.

RIDGWAY, Auk, IV, Oct. 1887, p. 347.

HAB. "Lower California."

51. **Guiraca cærulea eurhyncha** *Coues.* WESTERN BLUE GROSBEAK.—Revived by Ridgway in Manual N. A. Birds, 1887, p. 445.

HAB. "Western United States, north to Colorado, California, etc., south throughout Mexico" (*Ridgway, l.c.*).

52. **Passerina versicolor pulchra** *Ridgw.* BEAUTIFUL BUNTING.

RIDGWAY, Manual N. A. Birds, 1887, p. 448.

HAB. Lower California and western Mexico (vicinity of Mazatlan).

53. **Euetheia canora** (*Gmel.*). — Recorded from Florida (Sombrero Key) by Merriam in Auk, V, July, 1888, p. 322.

54. **Piranga rubriceps** *Gray.* — Recorded from California (Das Pueblo, Santa Barbara Co.) by Bryant in Auk, IV, Jan. 1887, p. 78.

55. **Progne cryptoleuca** *Baird.* CUBAN MARTIN.—Revived by Ridgway in Manual N. A. Birds, 1887, p. 459.

HAB. "Cuba and southern Florida; Honduras?" (*Ridgway, l.c.*)

56. **Lanius ludovicianus gambeli** *Ridgw.* CALIFORNIA SHRIKE.

RIDGWAY, Manual N. A. Birds, 1887, p. 467.

HAB. "California, especially coast district."

57. **Vireo gilvus swainsoni** (*Baird.*) WESTERN WARBLING VIREO. — Revived by Ridgway in Manual N. A. Birds, 1887, p. 472.

HAB. "Western United States, east to Rocky Mountains; south through central and western Mexico in winter." (*Ridgway, l.c.*) (See also *Allen*, Auk, V, Jan. 1888, p. 32.)

58. **Vireo solitarius alticola** *Brewst.* MOUNTAIN SOLITARY VIREO.

BREWSTER, Auk, III, Jan. 1886, p. 111.

HAB. "Mountains of western North Carolina."

59. **Vireo noveboracensis maynardi** *Brews.* KEY WEST VIREO.

BREWSTER, Auk, IV, April, 1887, p. 148.

HAB. "Key West, Florida."

60. **Dendroica æstiva morcomi** *Coale.* WESTERN YELLOW WARBLER.

COALE, Bull. Ridgway Ornithological Club, No. 2, April, 1887, p. 82.

HAB. "The Western Province of North America."

61. **Dendroica æstiva sonorana** *Brewst.* SONORA YELLOW WARBLER.

BREWSTER, Auk, V, April, 1888, p. 137.

HAB. "Southern Arizona, western Texas (Frontera), and Sonora, Mexico."

62. **Troglodytes aëdon aztecus** *Baird.* WESTERN HOUSE WREN.—Considered by Allen to be the form occupying the Middle Province. (*Allen*, Auk, V, April, 1888, p. 164.)

63. **Cistothorus palustris paludicola** *Baird.* TULE WREN.—Revived by Ridgway in Manual N. A. Birds, 1887, p. 556.

HAB. "Western United States, east to Rocky Mountains (to Great Plains?); south in winter over tablelands of Mexico to Guatemala" (*Ridgway l.c.*).

64. **Cistothorus marianæ** *Scott.* MARIAN'S MARSH WREN.

SCOTT, Auk, V, April, 1888, p. 188.

Type from Tarpon Springs, Florida.

65. **Parus bicolor texensis** *Senn.* TEXAN TUFTED TITMOUSE.

SENNETT, Auk, IV, Jan. 1887, p. 29.

HAB. "Bee Co., Southern Texas; Brownsville."

66. **Parus atricristatus castaneifrons** *Senn.* CHESTNUT-FRONTED TITMOUSE.

SENNETT, Auk, IV, Jan. 1887, p. 28.

HAB. Bee Co., Texas.

67. **Parus carolinensis agilis** *Senn.* PLUMBEOUS CHICKADEE.

SENNETT, Auk, V, Jan. 1888, p. 46.

HAB. "Texas (Bee, Victoria, and Concho Counties)."

68. **Parus stoneyi** *Ridgw.* KOWAK CHICKADEE.

RIDGWAY, Manual N. A. Birds, 1887, p. 591, Appendix.

Type from "Kowak or Putnam River, northwestern Alaska."

69. **Psaltriparus lloydi** *Senn.* LLOYD'S BUSH-TIT.

SENNETT, Auk, V, Jan. 1888, p. 43.

HAB. "Mountains of Western Texas, between the Pecos and Rio Grande Rivers."

The following species, given in the 'Hypothetical List' of the A. O. U. Check-List, are included by Mr. Ridgway in his 'Manual' without the appearance of further evidence of their validity or claim to rank as North American.

Æchmophorus clarkii (*Lawr.*).
Cepphus motzfeldi (*Benick.*).
Xema furcata (*Neb.*).
Oceanodroma hornbyi (*Gray*).
Phalacrocorax perspicillatus *Pall.*
Ardea pealei *Bonap.*
Tringa cooperi *Baird.*
Buteo cooperi *Cass.*
Buteo fuliginosus *Scl.*
Acanthis brewsterii *Ridgw.*
Spiza townsendi (*Aud.*).
Helminthophila lawrencei (*Herrick*).
Helminthophila leucobronchialis (*Brewst.*).
Helminthophila cincinnatiensis (*Langd.*).
Dendroica carbonata (*Aud.*).
Sylvania microcephala *Ridgw.*
Regulus cuvieri *Aud.*

II. ELIMINATIONS.

Species and subspecies, which, as subsequent investigation has shown, should now be withdrawn from the A. O. U. Check-List.

22. **Synthliborhamphus wumizusume** (*Temm.*). — The claim of this species to rank as a North American bird appears to have been based on winter specimens of *Synthliborhamphus antiquus.* (Cf. *Stejneger*, Pr. U. S. Nat. Mus. IX, 1886, p. 524.)

290. **Colinus graysoni** (*Lawr.*). — The North American record proves to have been based on specimens of *Colinus ridgwayi.* (Cf. *Allen*, Bull. Am. Mus. Nat. Hist. I, No. 7, July, 1886, p. 273, and also *Ridgway*, Manual N. A. Birds, 1887, p. 585, Appendix.)

519 *a*. **Carpodacus frontalis rhodocolpus** (*Cab.*).—"This proves to be an individual color phase of *C. frontalis* (or *C. mexicanus frontalis*)." (Cf. *Ridgway*, Manual N. A. Birds, 1887, p. 391, foot-note, and Appendix, p. 594.

576. **Peucæa arizonæ** *Ridgw.*—"This proves to be the same as No. 577, *P. mexicanus* (*Lawr.*). . . ." (Cf. *Ridgway*, Manual N. A. Birds, 1887, Appendix, p. 594.)

589 *b*. **Peucæa ruficeps eremœca** *Brown.* — This proves to be the same as No. 580 *a*, *Peucæa ruficeps boucardi* (*Scl.*). (Cf. *Sennett*, Auk, V, Jan. 1888, p. 40, and *Sharpe*, Cat. Bds. Brit. Mus. XII, 1888, p. 714.)

III. CHANGES IN NOMENCLATURE.

The table presented by Mr. Ridgway on page 594 of his 'Manual' comprises so large a proportion of the recent changes in nomenclature that it will be necessary to include here only those changes made since the publication of his work.

52. **Larus cachinnans** *Pall.* — Considered by Stejneger to be *Larus vegæ* (Palmén). (Cf. *Stejneger*, Auk, V, 1888, p. 310.)

[288]. **Jacana gymnostoma** (*Wagl.*) — Considered by Elliot to be *Jacana spinosa* (Linn.). (Cf. *Elliot*, Auk, V, July, 1888, p. 297.)

306. **Tympanuchus cupido** (*Linn.*). Renamed by Coues *Cupidonia cupido brewsteri.* (Cf. *Coues*, Key, 1887, Appendix, p. 884.)

419. **Nyctidromus albicollis** (*Gmel.*).—The Rio Grande Valley form has been described as *Nyctidromus albicollis merrilli* Senn. (Cf. *Sennett*, Auk, V, Jan. 1888, p. 44.)

602. **Sporophila morelleti** (*Bonap.*). — The Rio Grande Valley bird is considered by Sharpe to be *Spermophila parva* Lawr. (Cf. *Sharpe*, Cat. Bds. Brit. Mus. Vol. XII, 1888, p. 124.)

706. **Harporhynchus longirostris** (*Lafr.*).— The Texan bird has been described as *Harporhynchus longirostris sennetti* Ridgw. Cf. *Ridgway*, Proc. U. S. Nat. Mus. 1887, p. 506.)

719 *b*. **Thryothorus bewickii bairdi** (*Salv & Godm.*). — Now known as *Thryothorus bewickii murinus* (Hartl.). (Cf. *Ridgway*, Auk, IV, Oct. 1887, p. 349.)

DESCRIPTION OF THE BREEDING PLUMAGE OF CHADBOURNE'S FIELD SPARROW (*SPIZELLA ARENACEA*), WITH EVIDENCE OF ITS SPECIFIC DISTINCTNESS.

BY DR. C. HART MERRIAM.

Two years ago Dr. Arthur P. Chadbourne described* a new *Spizella* from southern Texas. His description was based on specimens in winter plumage, from which he assumed the new form to be merely a subspecies of *Spizella pusilla*. Mr. Ridgway redescribed the bird in his new 'Manual of North American Birds,' but was no better off for material, all of his specimens being in fall or winter plumage (though not so stated in the Manual). Mr. Vernon Bailey has recently sent me an adult

* Auk, III, April, 1886, 248.